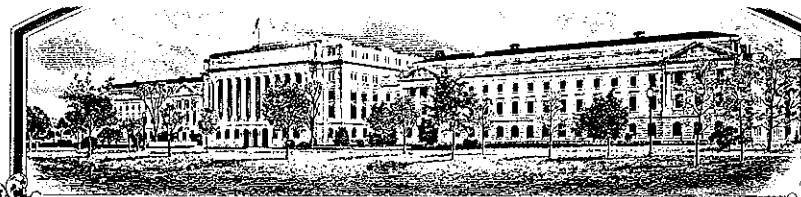


No.

8000138



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Royal Sluis

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (7 U.S.C. 2321 ET SEQ.)

DWARF SNAP BEAN

'Frenchy'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 24th day of September in the year of our Lord one thousand nine hundred and eighty-one.

Attest:

Kenneth H. Evans
Acting
Commissioner
Plant Variety Protection Office
Grain Division

John R. Block

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY RS 2216		1b. VARIETY NAME FRENCHY <i>cv 4/27/82</i> LINDO <i>cv 8/17/81</i>		FOR OFFICIAL USE ONLY	
				PV NUMBER 8000138	
2. KIND NAME Dwarf Snap Bean		3. GENUS AND SPECIES NAME Phaseolus vulgaris		FILING DATE 7-1-80	TIME 10:00 A.M.
				FEE RECEIVED \$500.00 \$250.00	DATE 7-1-80 8/21/81
4. FAMILY NAME (BOTANICAL) Leguminosa		5. DATE OF DETERMINATION September 1979			
6. NAME OF APPLICANT(S) ROYAL SLUIS Koninklijke Zaaizaad- bedr. Gebr. Sluis B.V.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Westeinde 161 P.O. Box 22 1600 AA ENKHUIZEN - Holland		8. TELEPHONE AREA CODE AND NUMBER 02280-2741	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) association		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION -		11. DATE OF INCORPORATION -	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: J.G. Timmerman ROYAL SLUIS B.V. P.O. Box 22 - 1600 AA ENKHUIZEN - Holland					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☐ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?		
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

April 28, 1980.
(DATE)

(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

8000138

13 A. Exhibit A

=====

Pedigree: Prelude x own parentlines.

FRENCHY CW-4/27/82
LINDO CW-8/17/81

<RS 2216> is a round podded Prelude type.

In this single cross line selection has been carried out.

Disease resistance testing has been carried out before
multiplication of elite seeds.

LINDO

<RS 2216> appears stable and uniform through several generations
of selfing. After 6 generations no off types were found.



ROYAL SLUIS

KONINKLIJKE ZAAIZAADBEDRIJVEN GEBROEDERS SLUIS B.V.

U.S. Department of Agriculture
Agricultural Marketing Service
Livestock, Poultry, Grain & Seed Division
BELTSVILLE, Maryland 20705

POSTBOX 22, 1600 AA ENKHUIZEN
HOLLAND

U.S.A.

Attention: Mr. Thaddeus E. Frey

October 16, 1980.

Subject: bean application No. 8000138, RS 2216. = *FRENCHY* cw 4/27/82
LINDO cw 8/17/81

Dear Mr. Frey,

In answer to your letter of July 9, 1980 please replace exhibit B
with:

RS 2216 is most similar to Lit, but the pods are more
fleshy. The plant spread is 5 cm wider

(RS 2216 - 25 cm, s = 3; n = 100)

(Lit - 20 cm, s = 2,5; n = 100)

and the pods mature one day later.

See also attached letter of 3/10/81, P2.
enb

We hope this information is sufficient to process the application.

Yours sincerely,

ROYAL SLUIS

J.G. Timmerman
Marketing Department

JGT/WB



ROYAL SLUIS

KONINKLIJKE ZAAIZAADBEDRIJVEN GEBROEDERS SLUIS B.V.

Mr. Thaddeus E. Frey
USDA, AMS
Livestock, Poultry, Grain &
Seed Division
Nat. Agric. Library Building
BELTSVILLE, Maryland 20705
U.S.A.

POSTBOX 22, 1600 AA ENKHUIZEN
HOLLAND

10 March, 1981.
'FRENCH' 'ex 4/21/81'
'LINDO' 'ex 5/11/81'

Subject: bean application no. 8000138, RS 2216.

Dear mr. Frey,

Referring to your letter of December 24, 1980, I can inform you as follows. As with RS 2215, I have no new detailed information available on the consistency of the difference in plant spread between RS 2216 and Lit. From our breeders observations we know, however, that RS 2216 is consistently more vigorous than Lit during the 6 years of selfing.

suppl to
Exhibit B
Re-examining for additional differences, I would like to draw your attention to point 6 of exhibit C, where cross section pod shape is indicated as heart, while Lit is roundpodded.

I hope this information is sufficient to process the application. If not, please accept that we need more than 6 months to obtain additional information.

Yours sincerely,

ROYAL SLUIS

J.G. Timmerman
Marketing department

OBJECTIVE DESCRIPTION OF VARIETY

BEAN (*Phaseolus vulgaris* L.)

NAME OF APPLICANT(S)		FOR OFFICIAL USE ONLY	
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)		PVPO NUMBER	
Royal Sluis, P.O. Box 22, 1600 AA Enkhuizen The Netherlands		VARIETY NAME OR TEMPORARY DESIGNATION <u>FRENCHY</u> cvb 4/22/82 RS 2216 = <u>LINDO</u> cvb 8/17/81	

Place numbers in the boxes (e.g.) for the characters that best describe this variety. Measured data should be for SPACED PLANTS. Ranges may also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: Royal Horticultural Society Colour Chart. The location of test area is Enkhuizen The Netherlands. Please answer questions appropriate for your variety if the information is available.

1. TYPE:

1 = Field (dry-edible)

2 = Garden

2. MARKET MATURITY:

Days to edible pods

Days to green shells

Days to dry seeds

Heat units to edible pods

Heat units to green shells

Heat units to dry seeds

No. days earlier than

..... Same as ..

No. days later than

1 = Tendercrop
3 = Kinghorn Wax
5 = Michelite 62
7 = Bush Blue Lake 290

2 = Kentucky Wonder
4 = White Kidney
6 = Dwarf Horticultural
8 = Other (specify below)

SMILO

3. PLANT:

1 = Determinate

2 = Indeterminate

cm height

cm shorter than

Same as ..

comparison variety from above

cm taller than

cm spread

Number primary branches near base

cm narrower than

width same as ...

comparison variety from above

cm wider than

Main stalk: 1 = brittle 2 = wirey

Branching habit:

1 = compact 2 = open

1 = stout 2 = thin

3. PLANT: (Cont'd)

Pod position: 1 = low 2 = high 3 = scattered

Bush form (illustrated below):



1 = spherical bush form



2 = stem bush form



3 = wide bush form



4 = high bush form

5 = other (specify) _____

4. LEAVES:

1 = smooth 2 = wrinkled

1 = dull 2 = glossy

Size: 1 = small (Earliwax) 2 = medium 3 = large (Tendercrop)

Color: 1 = light green (as light or lighter than Bountiful) 2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)

5. FLOWERS:

Color: 1 = white 2 = cream 3 = pink 4 = lilac 5 = purple 6 = Other (specify) _____

Days to 50% bloom

6. FRESH PODS: (Edible maturity, average for 20 pods)

Exterior color: 1 = light green (as light or lighter than Bountiful)
2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)
4 = light yellow (Brittlewax)
5 = golden yellow (Cherokee Wax)
6 = green-red variegated (Horticultural)
7 = other (specify) _____

% Sieve size distribution at optimum maturity for non-flat pods

Note:

1 = 4.76 mm to 5.76 mm

4 = 8.34 mm to 9.53 mm

2 = 5.76 mm to 7.34 mm

5 = 9.53 mm to 10.72 mm

3 = 7.34 mm to 8.34 mm

6 = 10.72 mm or larger

1	2	3	4	5	6
-	24	22	29	25	

3 sieve	<input type="text" value="1"/> <input type="text" value="1"/> cm length	<input type="text" value=""/> <input type="text" value="9"/> mm width	<input type="text" value=""/> <input type="text" value="9"/> mm thickness
4 sieve	<input type="text" value=""/> <input type="text" value=""/> cm length	<input type="text" value=""/> <input type="text" value=""/> mm width	<input type="text" value=""/> <input type="text" value=""/> mm thickness
5 sieve	<input type="text" value=""/> <input type="text" value=""/> cm length	<input type="text" value=""/> <input type="text" value=""/> mm width	<input type="text" value=""/> <input type="text" value=""/> mm thickness
6 sieve	<input type="text" value=""/> <input type="text" value=""/> cm length	<input type="text" value=""/> <input type="text" value=""/> mm width	<input type="text" value=""/> <input type="text" value=""/> mm thickness




ESH PODS: (Cont'd)

- ☐ 4 Cross section pod shape: 1 = flat 2 = oval 3 = round 4 = heart
- ☐ 2 Creaseback: 1 = present 2 = absent
- ☐ 1 Pubescence: 1 = none 2 = sparse 3 = considerable
- ☐ 1 Spur: 1 = straight 2 = slightly curved 3 = curved
- ☐ 1 Constrictions: 1 = none 2 = slight 3 = deep
- ☐ 3 Pod flesh: 1 = light 2 = medium 3 = dark
- ☐ 1 ☐ 0 mm spur length
- ☐ 1 Fiber: 1 = none 2 = sparse 3 = considerable
- ☐ 6 Number of seeds per pod
- ☐ 1 Surface: 1 = smooth 2 = rough
- ☐ 2 Suture string: 1 = present 2 = absent
- ☐ 1 Seed development (Snap Bean): 1 = slow 2 = medium 3 = fast
- ☐ 1 Machine harvest: 1 = adapted 2 = not adapted
- ☐ Pod flavor: (1) Standard (Tendercrop)
 (2) Mild Blue Lake (BBL 274)
 (3) Strong Blue Lake (Pole FM1)
 (4) Mild Romano (Roma)
 (5) Strong Romano (Pole Romano)
 (6) Other (specify) _____

7. SEED COAT COLOR:

- ☐ 1 1 = Monochrome 2 = Polychrome ☐ 1 1 = shiny 2 = dull
- ☐ 1 Primary color: 1 = white 2 = yellow 3 = buff 4 = tan
- ☐ 1 Secondary color: 5 = brown 6 = pink 7 = red 8 = purple
 9 = blue 10 = black 11 = other (specify) _____
- ☐ 0 Color Pattern: 1 = none 2 = splashed 3 = mottled 4 = striped 5 = flecked 6 = dotted
- ☐ 0 Secondary color location: 1 = hilar ring 2 = ventral surface
 3 = sides 4 = dorsal surface
 5 = not restricted to any area 6 = combination of location (specify below) _____
- ☐ 1 Hilar ring on colored seeds: 1 = absent 2 = narrow 3 = butterfly shaped

8. SEED SHAPE AND SIZE:

- ☐ 2 Hilum view: 1 = elliptical 2 = oval 3 = round ☐ 2 Cross section: 1 = elliptical 2 = oval 3 = cordate 4 = round
- ☐ 1 Side view:  1 = oval to oblong  2 = round  3 = reniform

8. SEED SHAPE AND SIZE: (Cont'd)

☐ 2 1 = truncate ends 2 = rounded ends

☐ 2 ☐ 2 gm/100 seed

☐ ☐ gm/100 seed lighter than ☐ }

gm/100 seed same as ☐ }

comparison variety from page one

☐ 0 ☐ 4 gm/100 seed heavier than ☐ 8 }

9. ANTHOCYANIN: (1 = absent 2 = present)

☐ 1 Flowers

☐ 1 Stems

☐ 1 Pods

☐ 1 Seeds

☐ 1 Leaves

10. DISEASE RESISTANCE (0 = not tested 1 = susceptible 2 = resistant):

☐ 1 Anthracnose (specify race below) _____

☐ 0 Rust (specify race below) _____

☐ 0 Powdery mildew

☐ 0 Fusarium root rot

☐ 0 Pythium root rot

☐ 0 Rhizoctonia root rot

☐ 0 Pythium wilt

☐ 0 Angular leaf spot

☐ 1 Bacterial wilt

☐ 1 Halo blight (specify race below) _____

☐ 0 Fuscos blight

☐ 0 Red node virus

☐ 0 Pod mottle virus

☐ 1 Bean common mosaic virus (specify strain below) _____

☐ 2 Mosaic mottle

☐ 1 Black root

☐ 0 Bean yellow mosaic virus

☐ 0 Curly top

☐ Other (specify below) _____

11. INSECT RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

☐ 0 Aphids

☐ 0 Leaf hopper

☐ 0 Lygus

☐ 0 Pod borer

☐ 0 Root knot nematode

☐ 0 Seed corn maggot

☐ 0 Thrips

☐ 0 Weavils

☐ Other (specify below) _____

12. PHYSIOLOGICAL RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

☐ 2 Heat

☐ 1 Cold

☐ 2 Drought

☐ Air pollution

13. COMMENTS: